For Research Use Only

CD206 Polyclonal antibody

Catalog Number:18704-1-AP 573 Publications

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Basic Information

Catalog Number:
18704-1-AP

Concentration:
800 ug/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_002438

GeneID (NCBI):
4360

UNIPROT ID:
P22897

Full Name:
mannose receptor, C type 1

Calculated MW:
166 kDa

Observed MW:
180-200 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:2000-1:8000
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, rat

Cited Species:
human, rat, pig, rabbit, mussel

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human placenta tissue, rat liver tissue

IHC : human placenta tissue,

IF-P : human placenta tissue,

Background Information

CD206, also named as MMR, CLEC13D and MRC1, is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages. CD206 has been shown to bind high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi so that they can be neutralized by phagocytic engulfment. CD206 is a 170 kDa transmembrane glycoprotein which contains 5 domains: an amino-terminal cysteine-rich region, a fibronectin type II repeat, a series of eight tandem lectin-like carbohydrate recognition domains (responsible for the recognition of mannose and fucose), a transmembrane domain, and an intracellular carboxy-terminal tail. It is expressed on most tissue macrophages, in vitro derived dendritic cells, lymphatic and sinusoidal endothelial cells. This antibody recognizes the intracellular carboxy-terminal part of CD206 and MRC1L1. If protein aggregation exists, for optimal WB detection with this antibody, we recommend adding DTT before boiling the sample to reduce disulfide bonds.

Notable Publications

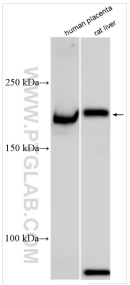
Author	Pubmed ID	Journal	Application
Shu-Ling Wang	31564717	Cell Death Dis	WB,IF
Shiao Tong	36248799	Front Immunol	WB,IHC
Yi-Na Zhang	36168082	Transl Stroke Res	IF

Storage

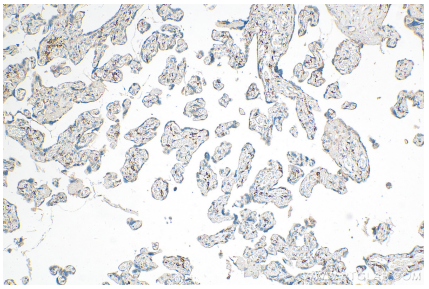
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

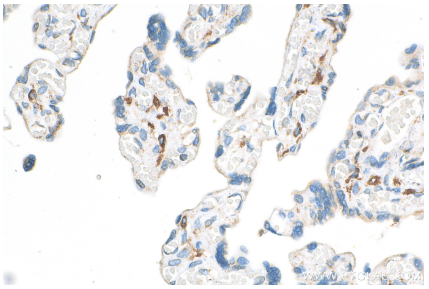
Selected Validation Data



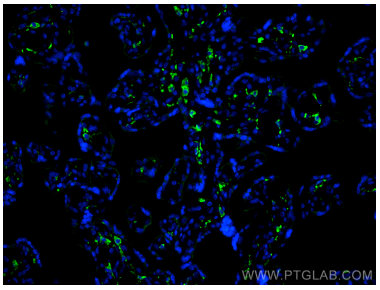
Various lysates were subjected to SDS PAGE followed by western blot with 18704-1-AP (CD206 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



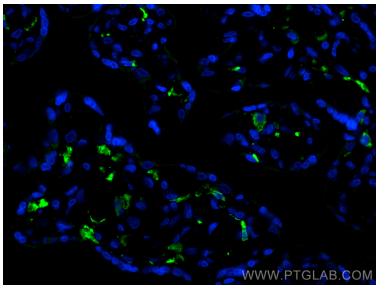
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18704-1-AP (CD206 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18704-1-AP (CD206 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CD206 antibody (18704-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CD206 antibody (18704-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).